

Appl. No. 10/814,341
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Abstract of the Disclosure

An energy information system and sub-measurement board for use therewith allows an energy information service provider to measure energy usage at a customer location. The sub-measurement board is connected to an energy distribution panel located at the customer location and measures energy usage of individual circuits of the distribution panel. The sub-measurement board outputs a load profile ~~of the energy usage and transmits the load profile to the energy information service provider via a wide area network (WAN).~~ The load profile is processed by ~~the energy service provider and posted on a server for access~~ that is accessible by the customer. The sub-measurement board ~~is capable of receiving~~ receives three three-phase voltages and nine single-phase currents. The voltages and currents are ~~input into a microprocessor circuit which compares the currents one at a time to the voltages to match the current with the voltage of the~~ compared to the voltages and currents of the same individual circuit of the distribution panel. ~~The microprocessor uses the matched currents and voltages to calculate the load profile of the~~ individual circuits. A utility meter can be connected to the sub-measurement board and output electric pulses thereto which the sub-measurement board uses to calculate cumulative periodic consumption data of the metered utility.